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Patent
Docket No: 56754US002

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Jonathan Hester, Brian E.
Spiewak, David R. Holm, Jerald W. Hall, Jr., Seth M.
Kirk, Moses M. David, and Brinda Lakshmi

Group Art Unit:

Serial No.: 10/017,632

Filed: December 14, 2001

Examiner:

For: APPARATUS FOR SUBSTANTIAL REMOVAL OF ORGANIC SUBSTANCE(S)
AND/OR NITROGEN SOURCE(S) FROM AN AQUEOUS MEDIUM

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on:

February 20, 2002

Date

Kara Celle

Signature

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, DC 20231

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, enclosed please find a completed PTO-1449 form citing references submitted for consideration during examination of the above-referenced patent application. A copy of each of the references cited therein is also enclosed.

It is respectfully requested that the Examiner initial and return the enclosed PTO-1449 form in order to indicate that each of the references listed thereon has been considered in connection with the present application.

Respectfully submitted,

By

Kimberly S. Tillig

Registration Number 46,346	Telephone Number (651) 736-6933
Date <i>February 20, 2002</i>	

Office of Intellectual Property Counsel
3M Innovative Properties Company
P.O. Box 33427
St. Paul, Minnesota 55133-3427
Facsimile: (651) 736-3833

FEB 28 2002

OMB No. 0651-0011

INFORMATION
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Applicant(s): Jonathan Hester, Brian E. Spiewak, David R. Holm, Jerald W. Hall, Jr., Seth M. Kirk, Moses M. David, and Brinda Lakshmi

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Group:

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
	3,432,585	03/11/1969	E.R. Watson et al.			
	3,586,220	06/22/1971	Reinsberg			
	3,971,373	07/27/1976	Braun			
	4,181,604	01/01/1980	Onishi et al.			
	4,184,922	01/22/1980	Knazek et al.			
	4,537,860	08/27/1985	Tolbert et al.			
	4,539,256	09/03/1985	Shipman			
	4,576,718	03/18/1986	Reischl et al.			
	4,726,989	02/23/1988	Mrozinski			
	4,746,435	05/24/1988	Onishi et al.			
	4,814,278	03/21/1989	Hamamoto et al.			
	4,867,881	09/19/1989	Kinzer			
	4,894,060	01/16/1990	Nestegard			
	5,077,870	01/07/1992	Melbye et al.			
	5,116,506	05/26/1992	Williamson et al.			
	5,120,594	06/09/1992	Mrozinski			
	5,134,174	07/28/1992	Xu et al.			
	5,176,953	01/05/1993	Jacoby et al.			
	5,236,963	08/17/1993	Jacoby et al.			
	5,238,623	08/24/1993	Mrozinski			
	5,260,360	11/09/1993	Mrozinski et al.			
	5,317,035	05/31/1994	Jacoby et al.			
	5,352,513	10/04/1994	Mrozinski et al.			
	5,605,835	02/25/1997	Hu et al.			

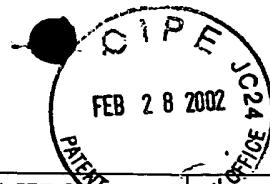
FOREIGN PATENT DOCUMENTS

Document Number	Date of Publication	Country	Class	SubClass	Translation
					Yes No

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

EXAMINER	Date Considered

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
	5,670,302	09/23/1997	Lau et al.			
	5,679,302	10/21/1997	Miller et al.			
	5,690,949	11/25/1997	Weimer et al.			
	5,712,154	01/27/1998	Mullon et al.			
	5,713,842	02/03/1998	Kay			
	5,738,111	04/14/1998	Weimer et al.			
	5,743,981	04/28/1998	Lu			
	5,792,411	08/11/1998	Morris et al.			
	5,888,594	03/30/1999	David et al.			
	5,899,893	05/04/1999	Dyer et al			
	5,948,166	09/07/1999	David et al.			
	5,981,211	11/09/1999	Hu et al.			
	5,989,698	11/23/1999	Mrozinski et al.			
	6,010,776	01/04/2000	Exsted et al.			
	6,042,877	03/28/2000	Lyon et al.			
	6,068,771	05/30/2000	McDermott et al.			
	6,096,213	08/01/2000	Radovanovic et al.			
	6,110,588	08/29/2000	Perez et al.			
	6,147,131	11/14/2000	Mork et al.			
	6,168,648 B1	01/02/2001	Ootani et al.			
	6,274,638 B1	08/14/2001	Yonemura et al.			

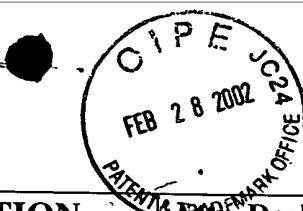
FOREIGN PATENT DOCUMENTS

Document Number	Date of Publication	Country	Class	SubClass	Translation	
					Yes	No
EP 0 492 942 B1	12/17/1991	EPO				
WO 00/43579	07/27/2000	PCT				
WO 00/68301	11/16/2000	PCT				
WO 00/71789	11/30/2000	PCT				
WO 01/21693	03/29/2001	PCT				
WO 97/44508	11/27/1997	PCT				
WO 98/20185	05/14/1998	PCT				

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

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U.S. PATENT DOCUMENTS							
Examiner Initial		Document Number	Date	Name	Class	SubClass	Filing Date If Appropriate
FOREIGN PATENT DOCUMENTS							
		Document Number	Date of Publication	Country	Class	SubClass	Translation
		WO 99/65542	12/23/1999	PCT			Yes
		WO 99/65595	12/23/1999	PCT			No
		WO 99/65664	12/23/1999	PCT			
OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)							
		Keth Brindle, Tom Stephenson, Michael J. Semmens, "Pilot-Plant Treatment of a High-Strength Brewery Wastewater Using a Membrane-Aeration Bioreactor," Water Environment Research, Volume 71, Number 6, pp. 1197-1204 (Sept./Oct., 1999).					
		John T. Cookson, Jr., Bioremediation Engineering: Design and Application, McGraw-Hill, Inc., 1995, Chapter 8, pp. 305-358, and Chapter 9, pp. 359-432.					
		"Water Treatment Membrane Processes," American Water Works Association Research Foundation, Lyonnaise des Eaux, Water Research Commission of South Africa, McGraw-Hill, Inc., Chapter 8 by P. Aptel and M.J. Semmens entitled "Multiphase Membrane Processes," pp.8.1-8.19.					
		Y. Suzuki et al., "Oxygen Supply Method Using Gas Permeable Film For Wastewater Treatment," Wat. Sci Tech., Vol. 28, No. 7 pp. 243-250, 1993.					
		M. Pankhania et al., "Hollow Fibre Bioractor For Wastewater Treatment Using Bubbleless Membrane Aeration, Wat. Res., Vol. 28, No. 10, pp. 2233-2236, 1994.					
		Pierre Cote et al, "Bubble-Free Aeration Using Membranes: Process Analysis," Journal WPCF, Vol. 60, Number 11, pp. 1986-1992, Nov. 1988.					
		Pierre Cote, "Bubble-Free Aeration Using Membranes: Mass Transfer Analysis," Journal of Membrane Science, 47 (1989) 91-106.					
		Keith Brindle et al., "The Application of Membrane Biological Reactors for the Treatment of Wastewaters," Biotechnology and Bioengineering, Vol. 49, pp. 601-610 (1996).					
		E. Casey et al., "Review of Membrane Aerated Biofilm Reactors," Resources, Conservation and Recycling 27 (1999) 203-215.					
		Tariq Ahmed et al., "The Use of Independently Sealed Microporous Hollow Fiber Membranes for Oxygenation of Water: Model Development," Journal of Membrane Science, 69 (1992) 11-20.					
		40 C.F.R. Ch. I (7-1-99 Edition), §§796.1050-796.3500.					
EXAMINER			Date Considered				
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Patent and Trademark Office, U.S. Department of Commerce

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U.S. APPLICATIONS**DO NOT PUBLISH**

Examiner Initial	
	Serial No. 09/519,449, Diamond-Like Glass Thin Films.
	Serial No. 09/758,764, Self-Mating Reclosable Mechanical Fastener and Binding Strap.
	Serial No. 09/385,265, Capillary Collapse Resistant Microporous Material and Method.
	Serial No. 10/023,267, Plasma Treatment of Porous Materials.

EXAMINER**Date Considered**

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